This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Original) A method of treating tinnitus, the method comprising:
implanting a catheter having a proximal end and a distal end, the distal end
adapted to infuse a drug formulation intrathecally into a patient's cerebrospinal fluid, the
drug formulation comprising at least one therapeutic agent and a solvent; and

infusing the drug formulation through the distal end of the catheter.

- 2. (Original) The method of claim 1, wherein the solvent comprises sterile water.
- 3. (Original) The method of claim 1, wherein the solvent comprises 0.9% saline solution.
- 4. (Original) The method of claim 1, wherein the solvent comprises an effective amount of NaCl to make the drug formulation isotonic.
- 5. (Original) The method of claim 1, wherein the drug formulation has a pH between 4 and 9.
- 6. (Original) The method of claim 1, wherein the drug formulation has a pH between 5 and 7.
- 7. (Original) The method of claim 1, wherein the drug formulation is substantially free of preservatives.
 - 8. (Original) The method of claim 1, wherein the drug formulation comprises cyclodextrin.
- 9. (Original) The method of claim 1, wherein the at least one therapeutic agent comprises a GABA_B agonist.
- 10. (Original) The method of claim 9, wherein the GABA_B agonist comprises baclofen.

- 11. (Original) The method of claim 10, wherein the baclofen has a concentration between 10 and 4000 mcg/ml.
- 12. (Original) The method of claim 10, wherein the baclofen has a concentration between 50 and 2000 mcg/ml.
- 13. (Original) The method of claim 10, wherein the baclofen has a concentration between 1000 and 4000 mcg/ml.
- 14. (Original) The method of claim 10, wherein the infusing baclofen comprises a daily dose between 20 and 2000 mcg.
- 15. (Original) The method of claim 10, wherein the infusing baclofen comprises a daily dose between 50 and 1500 mcg.
- 16. (Original) The method of claim 10, wherein the infusing baclofen comprises a daily dose between 100 and 1000 mcg.
- 17. (Original) The method of claim 1, wherein the at least one therapeutic agent comprises gabapentin.
- 18. (Original) The method of claim 1, wherein the at least one therapeutic agent comprises a thyrotropin-releasing hormone.
- 19. (Currently Amended) The method of claim 1, wherein the at least one therapeutic agent comprises sodium valproate.
- 20. (Original) The method of claim 1, wherein the at least one therapeutic agent comprises a GABA_A agonist.
- 21. (Original) The method of claim 1, wherein the GABA_A agonist comprises benzodiazepine.
- 22. (Original) The method of claim 21, wherein benzodiazepine comprises midazolam.
- 23. (Original) The method of claim 21, wherein benzodiazepine comprises alprazolam.

- 24. (Original) The method of claim 1, wherein the distal end of the catheter is placed in subarachnoid space between fifth thoracic and first cervical vertebrae.
- 25. (Original) The method of claim 1, wherein the distal end of the catheter is placed in subarachnoid space between fifth lumbar and fifth thoracic vertebrae.
- 26. (Original) A method of treating tinnitus using gabapentin, the method comprising:

implanting a catheter having a proximal end coupled to a pump and a distal end inserted into the subarachnoid space of a patients spinal column; and

operating the pump to deliver a fluid comprising gabapentin directly into the cerebrospinal fluid contained in the subarachnoid space of the patient's spinal column.

- 27. (Original) The method of claim 26, wherein the pumped fluid has a gabapentin concentration between 0.1 and 100 mg/ml.
- 28. (Original) The method of claim 26, wherein the pumped fluid has a gabapentin concentration between 1 and 90 mg/ml.
- 29. (Original) The method of claim 26, wherein the pumped fluid has a gabapentin concentration between 1 and 80 mg/ml.
- 30. (Original) The method of claim 26, wherein the gabapentin delivered comprises a daily dose between 1 and 200 mg.
- 31. (Original) The method of claim 26, wherein the gabapentin delivered comprises a daily dose between 1 and 150 mg.
- 32. (Original) The method of claim 26, wherein the gabapentin delivered comprises a daily dose between 2 and 60 mg.
- 33. (Original) The method of claim 26, wherein the distal end of the catheter is placed in the subarachnoid space between fifth thoracic and first cervical vertebrae.
- 34. (Original) The method of claim 26, wherein the distal end of the catheter is placed in the subarachnoid space between fifth lumbar and fifth thoracic vertebrae.

- 35. (Original) The method of claim 26, wherein the pumped fluid also comprises a solvent.
 - 36. (Original) The method of claim 35, wherein the solvent comprises sterile water.
- 37. (Original) The method of claim 35, wherein the solvent comprises 0.9% saline solution.
- 38. (Original) The method of claim 35, wherein the solvent comprises an effective amount of NaCl to make the drug formulation isotonic.
- 39. (Original) A method of treating tinnitus using a thyrotropin-releasing hormone, the method comprising:

implanting a catheter having a proximal end coupled to a pump and a distal end inserted into the subarachnoid space of a patients spinal column; and

operating the pump to deliver a fluid comprising the thyrotropin-releasing hormone directly into the cerebrospinal fluid contained in the subarachnoid space of the patient's spinal column.

- 40. (Original) The method of claim 39, wherein the distal end of the catheter is placed in the subarachnoid space between fifth thoracic and first cervical vertebrae.
- 41. (Original) The method of claim 39, wherein the distal end of the catheter is placed in the subarachnoid space between fifth lumbar and fifth thoracic vertebrae.
- 42. (Original) The method of claim 39, wherein the pumped fluid also comprises a solvent.
 - 43. (Original) The method of claim 42, wherein the solvent comprises sterile water.
- 44. (Original) The method of claim 42, wherein the solvent comprises 0.9% saline solution.
- 45. (Original) The method of claim 42, wherein the solvent comprises an effective amount of NaCl to make the drug formulation isotonic.

46. (Original) A method of treating tinnitus using sodium valproate, the method comprising:

implanting a catheter having a proximal end coupled to a pump and a distal end inserted into the subarachnoid space of a patients spinal column; and

operating the pump to deliver a fluid comprising sodium valproate directly into the cerebrospinal fluid contained in the subarachnoid space of the patient's spinal column.

- 47. (Original) The method of claim 46, wherein the distal end of the catheter is placed in the subarachnoid space between fifth thoracic and first cervical vertebrae.
- 48. (Original) The method of claim 46, wherein the distal end of the catheter is placed in the subarachnoid space between fifth lumbar and fifth thoracic vertebrae.
- 49. (Original) The method of claim 46, wherein the pumped fluid also comprises a solvent.
 - 50. (Original) The method of claim 49, wherein the solvent comprises sterile water.
- 51. (Original) The method of claim 49, wherein the solvent comprises 0.9% saline solution.
- 52. (Original) The method of claim 49, wherein the solvent comprises an effective amount of NaCl to make the drug formulation isotonic.
 - 53. (Previously presented) Method for treating tinnitus, the method comprising of: intrathecally administering drug formulation comprising at least one therapeutic agent and a solvent in an amount effective to treat tinnitus.
- 54. (Previously presented) The method of claim 53, wherein the at least one therapeutic agent comprises baclofen.
- 55. (Previously presented) The method of claim 53, where in the at least one therapeutic agent comprises gabapentin.

56-58. (Cancelled)